

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

Ca 1 1 1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

Code 212

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, V.

Ways of accelerating inventions in the USA. p.113.
(Sbirka Vynalezu, Vol. 6, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, V. (Plzen, Moskevská 52)

Two problems of two-dimensional steady temperature in a
composite semi-infinite plate. Chekhosl fiz zhurnal 14
no.11:873-885 '64.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

Information 1040, on 12.3 pp. 1000

Information 1040, on 12.3 pp. 1000
is written down.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, V.
S.A.

*Electrical Engineering
Sov. Univ.*

Seat. B

621.3.016.35

991. The Lomax stability criterions. V. Vodicka.
Elektrotech. Obz., 39, 29-32 (No. 1-2, 1950) in Czech.

Mechanical and electrical oscillations are very frequently investigated by means of particular integrals of the type $e^{\lambda t}$. The characteristic constants λ are of great importance when studying the behaviour of a system, particularly its behaviour for $t \rightarrow \infty$. It is well known that if a single one of the characteristic constants λ has a negative real part, the whole system is unstable. It is shown how it is possible to recognize from the characteristic equation whether or not a case represents stable or unstable conditions, without it being necessary to solve the equation. — I. GAKO

VODICKA, V. (Plzen, Moskevska 52)

Longitudinal vibrations of homogeneous bars with variable cross section. Chekhosl fiz zhurnal 13 no.10:771-780 '63.

VODIČKA, V.

Mathematical Reviews
 Vol. 14, No. 10
 Nov. 1953
 Analysis

Vodička, V. ✓ Conduction de la chaleur dans une barre formée de plusieurs parties en matériaux différents.
Prace Mat.-Fiz., 48, 45-52 (1952).

The problem of the conduction of heat in a thin bar with constant cross-section which consists of n parts of different materials is expressed by the following mathematical system:

$$(1) \quad \frac{\partial u_i}{\partial t} = a_i^2 \frac{\partial^2 u_i}{\partial x^2}, \quad a_i^2 = \frac{\lambda_i}{c_i \gamma_i}, \quad x_{i-1} \leq x \leq x_i, \quad t > 0, \\ i = 1, 2, \dots, n,$$

$$(2) \quad \frac{\partial u_1}{\partial x} - h_0 u_1 = 0, \quad x = 0, \quad \frac{\partial u_n}{\partial x} + h_n u_n = 0, \quad x = x_n,$$

$$(3) \quad u_i(x_i, t) = u_{i+1}(x_i, t), \quad i = 1, 2, \dots, n-1,$$

$$(4) \quad \lambda_i \frac{\partial u_i}{\partial x} = \lambda_{i+1} \frac{\partial u_{i+1}}{\partial x}, \quad x = x_i, \quad i = 1, 2, \dots, n-1,$$

$$(5) \quad u_i(x, 0) = f_i(x), \quad x_{i-1} \leq x \leq x_i, \quad i = 1, 2, \dots, n,$$

(OUER)

where $u_i = u_i(x, t)$ is the temperature distribution in the i th part and λ_i , c_i , γ_i are the coefficient of conductivity, the specific heat, and the mass per unit volume, respectively, in the i th part of the bar. It is assumed that the initial distribution is given by $f_i(x)$ where $f_i(x)$ ($i=1, 2, \dots, n$) are bounded integrable functions.

Using the Bernoulli method of separation of variables, the author finds particular solutions of the problem in the i th part of the bar of the form

$$(6) \quad v_{ip}(x, t) = X_{ip}(x)T_{ip}(t), \quad x_{i-1} \leq x \leq x_i, \quad t \geq 0, \\ i = 1, 2, \dots, n,$$

which satisfy the differential equation (1) and the conditions (2)–(4). It is then shown that the functions X_{ip} ($p=1, 2, \dots$) form an orthogonal set, that is,

$$(7) \quad \sum_{i=1}^n \frac{\lambda_i}{c_i} \int_{x_{i-1}}^{x_i} X_{ip}(x)X_{iq}(x)dx = 0, \quad p \neq q, \quad p, q = 1, 2, \dots,$$

so that the functions $f_i(x)$ may be expressed in the form

$$(8) \quad f_i(x) = \sum_{p=1}^{\infty} c_p X_{ip}(x), \quad x_{i-1} \leq x \leq x_i, \quad i = 1, 2, \dots, n,$$

where the coefficients are found by use of relations (7). This permits the distribution functions u_i to be expressed in terms of an infinite series of particular solutions of the form (6). For the particular case $n=1$, this reduces to the usual well-known expression for $u(x, t)$. *C. G. Maple.*

VODICKA, V.

POLAND/Atomic and Molecular Physics - Heat

D-4

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 773

Author : Vodicka, Vaclav

Inst : -

Title : Heat Exchange in a Three-Layer Plate of Finite Dimension.

Orig Pub : Arch. budowy maszyn, 1956, 3, No 4, 319-331

Abstract : The article concerns unsteady heat exchange in a plate consisting of three layers, each of which has different thermal properties. Using the Laplace transformations, the author gives complete solutions for the corresponding Fourier equations with initial and boundary conditions. In conclusion, the particular case of a symmetrical plate, in which the external layers have the same thickness and the same thermal properties is considered.

Card 1/1

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

...and no further dust balled and with no
obstruction of the outer or inner edge

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA V.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

$$\frac{\partial u}{\partial p} + k_0(u - f(\varphi, z) \exp(i\omega t)) = 0 \quad (\omega = i),$$

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA VACLAV

Vodicka, VACLAV. Stationary temperature fields in a two-
1 F W

OK

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VICK A V.

the cross section [which has the form of two ellipses]. The tea peroxide is supposed to be constant along the tube axis, its value at the outer and inner faces being determined by means of two different, in general, periodic functions which

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, VACLAV

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

29282

103500

P/033/60/012/001/001/008
D250/D302

26.5100

AUTHOR: Vodicka, Václav (Plzeň)

TITLE: Fourier's classical problem in the case of stratiform bodies

PERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 1,
1960, 3 -11

TEXT: A generalization is made of classical results for the steady temperature distribution in a semi-infinite body to the case of a body with parallel plane discontinuities of conductivity. The solid is taken to consist of homogeneous isotropic layers

$$x_{k-1} \leq x \leq x_k, \quad y \geq y_0, \quad -\infty < z < +\infty \quad (k = 1, 2, \dots, n)$$

with conductivities λ_k . In the usual way, the solution can be expressed as

$$u_k(x, y) = \sum_{v=1}^{\infty} v_k^{(v)}(x, y) = \sum_{v=1}^{\infty} B_{kv} e^{-s^{(v)}(y-y_0)} X_{kv}(x), \quad 1 \leq k \leq n, \quad (6.1.)$$

Card 1/4

29282

P/033/60/012/001/001/008

D250/D302

Fourier's classical problem ...

$$B_{1v} = \frac{\sum_{k=1}^n \lambda_k \int_{x_{k-1}}^{x_k} f_k(\xi) X_{1v}(\xi) d\xi}{\sum_{k=1}^n \lambda_k \int_{x_{k-1}}^{x_k} X_{kv}^*(\xi) d\xi}, \quad v \geq 1, \quad (6.2)$$

where

and $\begin{cases} X_{1v}(x) = \sin \varrho^{(v)}(x - x_0), \\ X_{kv}(x) = q_{12}^{(k-1)}(\varrho^{(v)}) \cos \varrho^{(v)}(x - x_{k-1}) + q_{22}^{(k-1)}(\varrho^{(v)}) \sin \varrho^{(v)}(x - x_{k-1}), \quad 2 \leq k \leq n. \end{cases} \quad (4.3)$

The eigenvalues $\varrho^{(v)}$ are the roots of the characteristic equation

$$q_{11}^{(k-1)}(\varrho) \cos \varrho l_n + q_{22}^{(k-1)}(\varrho) \sin \varrho l_n = 0. \quad (3.6)$$

where $q_{rs}^{(k)}$ (φ) denote the elements of the 2×2 matrices

Card 2/4

29282

F/033/60/012/001/001/008
D250/D302

Fourier's classical problem...

$$Q_k(\rho) = M_k(\rho)M_{k-1}(\rho)\dots M_1(\rho), \quad (3.5)$$

with

$$M_k(\rho) = \begin{vmatrix} \cos \rho l_k & \sin \rho l_k \\ -A_k \sin \rho l_k & A_k \cos \rho l_k \end{vmatrix} \quad (3.4)$$

$$1 \leq k \leq n-1,$$

where

$$l_k = x_k - x_{k-1}, \quad A_k = \frac{\lambda_k}{\lambda_{k+1}}, \quad (3.2)$$

The temperature of the face $y=y_0$ is given as $f(x)$, and $f_k(x)$ denotes the portion of this in the region $x_{k-1} < x < x_k$.

The general expressions are applied to the following special cases:
 (1) all conductivities λ_k the same, for which case Fourier's result

Card 3/4

X

29282

P/033/60/012/001/001/008

D250/D302

Fourier's classical problem ...

is reproduced; (2) the three-layer problem, with $l_1 = l_2 = l_3$,
for which detailed solutions are given. There is 1 Soviet-bloc
reference.

SUBMITTED: August 15, 1959

Card 4/4

X

23897

16.3500

P/033/60/012/002/001/008
D214/D301*VACI*AUTHOR: Vodička, Václav (Plzeň)

TITLE: Steady temperature in a composite semi-infinite three layer plate

PERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 2, 1960,
151 - 162TEXT: This work is a continuation of the earlier work by the author (Ref. 1: Fourier's Classical Problem in the case of Stratiform Bodies, Arch. Mech. Stos. 1, 12, 1960) and deals with the application of theoretical results obtained in (Ref. 1: Op.cit.). The problem is as follows: A semi-infinite plate $x_0 \leq x \leq x_3$, $y \geq y_0$, $-\infty < z < +\infty$ is made of three homogeneous isotropic layers

$$x_{k-1} \leq x \leq x_k, \quad x_k = x_0 + kl, \quad k = 1, 2, 3 \quad (1.1)$$

of the same thickness l and with the conductivities $\lambda_1, \lambda_2, \lambda_3$

Card 1/7

23897

P/033/60/012/002/001/008
D214//D301

Steady temperature in a ...

respectively. The problem is to determine the steady temperature distribution in the solid, provided that the faces $x = x_0$, $x = x_3$ are kept at zero temperature and the remaining boundary $y = y_0$ has the temperature $f(x)$ determined by

$$f(x) = f_k, \quad x_{k-1} < x < x_k, \quad k = 1, 2, 3 \quad (1.2)$$

f_k are given constants and the solution derived as

$$\begin{aligned} u_k(x, y) = & \Omega \sum_{v=0}^{\infty} \frac{1}{2v+1} e^{-(\alpha+v+1)\pi \frac{y-y_0}{l}} X_{k, 2v+1}^{(e)}(x) + \\ & + \Phi \sum_{v=0}^{\infty} \left[\frac{X_{k,v}^{(a)}(x)}{\rho_0 l + 2v\pi} e^{-\alpha(v)(y-y_0)} + \frac{X_{k,v}^{(\beta)}(x)}{\rho_0 l + 2(v+1)\pi} e^{-\beta(v)(y-y_0)} \right] + \\ & + \Psi \sum_{v=0}^{\infty} \left[\frac{X_{k,v}^{(\gamma)}(x)}{-\rho_0 l + (2v+1)\pi} e^{-\gamma(v)(y-y_0)} + \frac{X_{k,v}^{(\delta)}(x)}{-\rho_0 l + (2v+1)\pi} e^{-\delta(v)(y-y_0)} \right], \\ & k = 1, 2, 3. \end{aligned} \quad (9.1)$$

Card 2/7

23897

P/033/60/012/002/001/008

D214/D301

Steady temperature in a ...

where

$$\Omega = \Omega(f_1, f_2, f_3, \Lambda_1, \Lambda_2) = \frac{4}{\pi} \frac{f_1 - f_2 + f_3}{1 + \Lambda_1 + \Lambda_1 \Lambda_2}, \quad (9.2)$$

 Φ and Ψ are given by

$$\begin{cases} a^{(v)} l C_v^{(a)} = \beta^{(v)} l C_v^{(b)} = \Phi, & \gamma^{(v)} l C_v^{(b)} = e^{(v)} l C_v^{(c)} = \Psi, \\ \Phi = \Phi(f_1, f_2, f_3, \Lambda_1, \Lambda_2) = \frac{1 + \Lambda_2}{\Lambda_2(1 + \Lambda_1 + \Lambda_1 \Lambda_2)} (1 - \cos \varrho_0 l) \varphi, \\ \Psi = \Psi(f_1, f_2, f_3, \Lambda_1, \Lambda_2) = \frac{1 + \Lambda_2}{\Lambda_2(1 + \Lambda_1 + \Lambda_1 \Lambda_2)} (1 + \cos \varrho_0 l) \psi. \end{cases} \quad (8.3)$$

and

$$\begin{cases} a^{(v)} Z_v^{(a)} = \beta^{(v)} Z_v^{(b)} = \lambda_3 (1 - \cos \varrho_0 l) \varphi; \\ \gamma^{(v)} Z_v^{(b)} = e^{(v)} Z_v^{(c)} = \lambda_3 (1 + \cos \varrho_0 l) \psi, \\ \varphi = \varphi(f_1, f_2, f_3, \Lambda_1, \Lambda_2) = \Lambda_1 \Lambda_2 f_1 + \Lambda_2 f_2 [1 + (1 + \Lambda_1) \cos \varrho_0 l] + \\ \quad + (1 + \Lambda_1) f_3 \cos \varrho_0 l, \\ \psi = \psi(f_1, f_2, f_3, \Lambda_1, \Lambda_2) = \Lambda_1 \Lambda_2 f_1 + \Lambda_2 f_2 [1 - (1 + \Lambda_1) \cos \varrho_0 l] - \\ \quad - (1 + \Lambda_1) f_3 \cos \varrho_0 l, \end{cases} \quad (8.1)$$

Card 3/7

X

23897

P/033/60/012/002/001/008
D214/D301

Steady temperature in a ...

$\lambda_1, \lambda_2, \rho_0^1, \cos \rho_0^1$, and the eigenvalues $a^{(v)}, \beta^{(v)}, \varepsilon^{(v)}$ by

$$\left\{ \begin{array}{l} a^{(v)} = \rho_0 + \frac{2\pi}{l}, \quad \beta^{(v)} = -\rho_0 + \frac{2(v+1)\pi}{l}, \\ \gamma^{(v)} = -\rho_0 + \frac{(2v+1)\pi}{l}, \quad \epsilon^{(v)} = \rho_0 + \frac{(2v+1)\pi}{l}, \quad v = 0, 1, 2, \dots \\ \rho_0 = \frac{1}{l} \arccos \sqrt{\frac{\Lambda_2}{(1+\Lambda_1)(1+\Lambda_2)}}, \quad 0 < \rho_0 < \frac{\pi}{2l}, \\ \Lambda_1 = \frac{\lambda_1}{\lambda_2}, \quad \Lambda_2 = \frac{\lambda_2}{\lambda_1}. \end{array} \right. \quad (2.2)$$

eigenfunctions $X_{kv}^{(\rho)}$ by

$$\left\{ \begin{array}{l} X_{1v}^{(\rho)} = \sin \frac{v\pi(x-x_0)}{l}, \quad X_{2v}^{(\rho)} = \Lambda_1 \sin \frac{v\pi(x-x_0)}{l}, \\ X_{3v}^{(\rho)} = \Lambda_1 \Lambda_2 \sin \frac{v\pi(x-x_0)}{l}, \quad v = 1, 2, 3, \dots \end{array} \right. \quad (2.3)$$

Card 4/7

Steady temperature in a ...

23897
P/033/60/012/002/001/008
D214/D301

characteristic functions $X_{kv}^{(\alpha)}$, $X_{kv}^{(\beta)}$, $X_{kv}^{(\gamma)}$, $X_{kv}^{(\varepsilon)}$ by

$$\left| \begin{array}{l} X_{1v}^{(\alpha)} = \sin \alpha^{(v)} (x - x_0), \\ X_{2v}^{(\alpha)} = \sin \varrho_0 l \cos [\alpha^{(v)}(x - x_0) - \varrho_0 l] + A_1 \cos \varrho_0 l \sin [\alpha^{(v)}(x - x_0) - \varrho_0 l], \\ X_{3v}^{(\alpha)} = -(1 + A_1) \cos \varrho_0 l \sin [\alpha^{(v)}(x - x_0) - 3 \varrho_0 l], \\ X_{1v}^{(\beta)} = \sin \beta^{(v)} (x - x_0), \\ X_{2v}^{(\beta)} = -\sin \varrho_0 l \cos [\beta^{(v)}(x - x_0) + \varrho_0 l] + A_1 \cos \varrho_0 l \sin [\beta^{(v)}(x - x_0) + \varrho_0 l], \\ X_{3v}^{(\beta)} = -(1 + A_1) \cos \varrho_0 l \sin [\beta^{(v)}(x - x_0) + 3 \varrho_0 l], \\ X_{1v}^{(\gamma)} = \sin \gamma^{(v)} (x - x_0), \\ X_{2v}^{(\gamma)} = -\sin \varrho_0 l \cos [\gamma^{(v)}(x - x_0) + \varrho_0 l] + A_1 \cos \varrho_0 l \sin [\gamma^{(v)}(x - x_0) + \varrho_0 l], \\ X_{3v}^{(\gamma)} = -(1 + A_1) \cos \varrho_0 l \sin [\gamma^{(v)}(x - x_0) + 3 \varrho_0 l], \\ X_{1v}^{(\varepsilon)} = \sin \varepsilon^{(v)} (x - x_0), \end{array} \right. \quad (3.3)$$

Card 5/7

23897 X

Steady temperature in a ...

P/033/60/012/002/001/008
D214/D301

$$\begin{cases} X_{1v}^{(e)} = \sin \varrho_0 l \cos [e^{i\omega}(x-x_0) - \varrho_0 l] + A_1 \cos \varrho_0 l \sin [e^{i\omega}(x-x_0) - \varrho_0 l], \\ X_{2v}^{(e)} = -(1 + A_1) \cos \varrho_0 l \sin [e^{i\omega}(x-x_0) - 3 \varrho_0 l]. \end{cases} \quad (3.3)$$

and $\sin \varrho_0 l$ is found from: $\sin \varrho_0 l = \sqrt{H_2 S}$, where $S = 1 + \lambda_1 + \lambda_2$
 λ_2 and

$$H_2 = \frac{1}{(1 + \lambda_1)(1 + \lambda_2)}.$$

Three particular cases are then given, namely 1) A homogeneous isotropic plate characterized by $\lambda_1 = \lambda_2 = \lambda_3$, for which the solution is

$$\begin{aligned} u_k(x, y) = & \frac{2}{\pi} \sum_{m=1}^{\infty} \frac{1}{m} \left[\left(1 - \cos \frac{\pi m}{3} \right) f_1 + \left(\cos \frac{\pi m}{3} - \cos \frac{2\pi m}{3} \right) f_2 + \right. \\ & \left. + \left(\cos \frac{2\pi m}{3} - \cos \pi m \right) f_3 \right] e^{-m\pi \frac{|y-y_0|}{3l}} \sin m\pi \frac{x-x_0}{3l}, \quad k=1, 2, 3. \end{aligned} \quad (10.1)$$

Card 6/7

23897

P/033/60/012/002/001/008
D214/D301

Steady temperature in a ...

2) A two layer plate in which case $\lambda_1 = \lambda_2$, $f_1 = f_2$; and 3) A symmetrical case, in which $\lambda_1 = \lambda_3$, $f_1 = f_3$. Here the solution is

$$\begin{aligned} u_k(x, y) = & \frac{2}{2 + A_1} \sum_{r=0}^{\infty} \left\{ \frac{2(2f_1 - f_3)}{(2r+1)\pi} e^{-(2r+1)\pi \frac{x-y}{l}} X_{k, 2r+1}^{(r)} + \right. \\ & \left. + (A_1 f_1 + f_3) \left[\frac{X_{k,r}^{(r)}}{\rho_0 l + 2r\pi} e^{-a^{(r)}(y-y_i)} + \frac{X_{k,r}^{(r)}}{-\rho_0 l + 2(r+1)\pi} e^{-\beta^{(r)}(y-y_j)} \right] \right\}, \end{aligned} \quad (12.2)$$

$$k = 1, 2, 3.$$

~~✓~~

There is 1 Soviet-bloc reference.

SUBMITTED: October 29, 1959

Card 7/7

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VOLICKA, Vaclav, (Plzen, Czechoslovakia)

Fourier's classical problem in the case of stratiform bodies.
Archiw mech 12 no.1:3-12 '61.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

10.3500

261 5100

AUTHOR:

Vodička, Václav (Plzeň)

TITLE:

Strong singularities in theory of heat

PERIODICAL:

Archiwum mechaniki stosowanej, v. 13, no. 4, 1961,
471-47829460
P/033/61/013/004/003/005
D248/D302

TEXT: The paper generalizes the idea of a heat source from which heat flows to a new group of objects, and introduces multiplets to describe the singularity. The equations of temperature distribution corresponding to an instantaneous combustion of force $\sigma^{(0)}$ at time t_0 and location $r_0(x_0, y_0, z_0)$ in an infinite homogeneous, isotropic medium with thermal constants p, c, λ are introduced:

Card 1/4

29460
 P/033/61/013/004/003/005
 D248/D302

Strong singularities in ...

$$\left\{ \begin{array}{l} u^{(0)} = u^{(0)}(\mathbf{r}, \mathbf{r}_0; t, t_0; \sigma^{(0)}) = \sigma^{(0)} T^{(0)}(t, t_0) E(\mathbf{r}, \mathbf{r}_0; t, t_0), \\ T^{(0)}(t, t_0) = \frac{1}{(4\pi a^3)^{3/2}} \frac{h(t, t_0)}{(t - t_0)^{3/2}}, \quad h(t, t_0) = \frac{1}{2} [1 + \operatorname{sgn}(t - t_0)], \\ E(\mathbf{r}, \mathbf{r}_0; t, t_0) = e^{-\frac{|\mathbf{r} - \mathbf{r}_0|^2}{4a^2(t - t_0)}}, \quad a^2 = \frac{\lambda}{\rho c}, \\ |\mathbf{r} - \mathbf{r}_0|^2 = (x - x_0)^2 + (y - y_0)^2 + (z - z_0)^2. \end{array} \right. \quad (3)$$

The system of two doublets is defined in such a way that it can easily be seen how quadruplets and even octuplets may be formed. The general case for the distribution of temperatures in an infinite medium with a strong singularity described by a doublet is written in an explicit form. The proof of the explicit expression is given by a method of induction. The expression is then transformed into a cosine series which holds for all values of the

Card 2/4

29160
P/033/61/013/004/003/005
D248/D302

Strong singularities in ...

power u in the general equation thermal conduction in a homogeneous medium:

$$u^{(0)}, u^{(n)} = c^{(n)} \frac{\partial^n u^{(0)}}{\partial s^{(1)} \partial s^{(2)} \dots \partial s^{(n)}} \quad n=1, 2, 3, \dots \quad (2)$$

The particular cases of $u = 1$ and $u = 2$ are considered. The case of $u = 3$ which leads to an octuplet is briefly mentioned. The author intends to extend his ideas to strong singularities placed not just at a point but on lines, surfaces and space domains in a later paper. He refers particularly to the work of Carslaw and Jaeger. A few general words are given on the choice of suitable coordinates. There are 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. S. Carslaw, J. C. Jaeger, Conduction of Heat

Card 3/4

Strong singularities in ...

29460
P/033/61/013/004/003/005
D248/D302

in Solids, Clarendon Press, Oxford, 1^{ere} edit. 1947, 2^e edit.
1959.

SUBMITTED: March 5, 1961

Card 4/4

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav, dr. (Plzen, Moskevska 52)

Use of the term $\alpha^n + \beta^n$. Aplikace mat 7 no.4:272-281 '62.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav

Free vibrations of nonhomogeneous annular membranes. Rozpr inz
PAN 10 no.4:665-675 '62.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

24,4200

Z/055/62/012/002/005/008
1045/1245

JB

AUTHOR: Vodicka, V. (Plzeň)

TITLE: Free vibrations of four-part membrane

PERIODICAL: Chekhslovatskyi fizicheskiy zhurnal, v. 12, no. 2, 1962, 111-118

TEXT: In advanced literature the case of a two-part membrane is worked out. This article extends the problem to the case of a four-part membrane using classical solution methods. The theory is applied to the case of a homogeneous membrane and then to a four-part vibrating membrane. An additional article is announced dealing with the problem under generalized conditions, using the integral-transform method.

SUBMITTED: June 28, 1961

Card 1/1

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav, dr. (Plzen, Moskevska 52)

Explicit form of powers of square two-row matrices. Aplikace
mat. 8 no.4:286-291 '63.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav (Plzen, Moskovska 52)

On longitudinal vibrations of semi-infinite bars. Cs cas fys
I3 no.2:81-86 '63.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, V. (Plzen, Moskevská 52)

On forced vibrations of composite circular membranes. Chekhosl
fiz zhurnal 13 no.7:493-498 '63.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, Vaclav (Plzen)

Note on the Hermite polynomials. Cas pro pes mat 88 no.1:106-107
'63.

P/006/62/010/004/002/004
D237/D308

AUTHOR: Vodička, Václav

TITLE: Free vibrations of a non-homogeneous membrane

PERIODICAL: Rozprawy Inżynierskie, v. 10, no. 4, 1962, 665-675

TEXT: An annular membrane $\rho_0 \leq \rho \leq \rho_n$ is assumed to be composed of n homogeneous parts $\rho_{k-1} \leq \rho \leq \rho_k$, $1 \leq k \leq n$ with densities per unit area σ_k , $1 \leq k \leq n$. The problem is to determine its natural vibration if the initial state is given in terms of two functions $f(\rho)$, $g(\rho)$ and the membrane is subject to a uniform tension S . Using matrix notation the author writes the characteristic equation whose roots represent the oscillatory spectrum of the membrane, derives the orthogonality conditions and obtains the final solution of the problem in terms of an infinite Fourier series. The case of a homogeneous membrane is solved by the above method as an example.

SUBMITTED: January 20, 1962

Card 1/1

VODICKA, V. (Plzen, Moskevska 52)

Extensional vibrations of composite circular plates of
moderate uniform thickness. Chekhol fiz zhurnal 14
no.5:367-375 '64.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav (Plzen, Moskevska 52)

Vibration of annular membranes. Cs cas fys 14 no.6:
501-508 '64.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

ATTWELL, Vojtěška, Vojtěška.

the second vibrations of a rigid rod with two symmetric parts, that these relationships remain valid in the case of larger molecules, and that it is possible to calculate the vibrational frequencies of the molecule from the vibrational frequencies of its parts.

Card 1/1

L 36795-66 EWP(k)/EWP(h)/EWP(v)/EWP(l)

ACC NR: AP6027864

SOURCE CODE: CZ/0031/65/013/008/0544/0545
38

AUTHOR: Vodicka, Josef

ORG: Precision Machine Building Plants, n.p., Gottwaldov (Zavody presneho strojirnsvi, n.p.)
*14*TITLE: Universal group drilling jig for bars, draw bars and plates

SOURCE: Strojirenska výroba, v. 13, no. 8, 1965, 544-545

TOPIC TAGS: drilling machine, metal machining, production engineering, pneumatic device

ABSTRACT: For drilling holes in sheets, similar machined parts and other items, a universal group drilling jib has been designed which fulfills all the conditions for precision and economy of production and in which standardized pneumatic selectors (or one selector) are used. Orig. art. has: 4 figures. *[JPRS]*

SUB CODE: 13, 05 / SUEM DATE: none

Card 1/1 DMP

8977

1377

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA, Vaclav (Plzen)

Surface heating of a multilayer semi-infinite space.
Rozpr inz PAN 11 no. 4: 635-542 '63.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, Vaclav (Plzen)

Higher singularities in the theory of heat. Archiw mech 13 no.4:
471-478 '61.

L 1645-66 EWT(d)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m) WW/EM
cz/0037/64/000/006/0501/0505

ACCESSION NR: AP5024321

AUTHOR: Vodicka, Vaclav (Plzen)

TITLE: Vibrations of annular membranes

SOURCE: Ceskoslovensky casopis pro fysiku, no. 6, 1964, 501-505

TOPIC TAGS: vibration theory, structure vibration, integral equation, characteristic function

ABSTRACT: The nonhomogenous equation of a vibrating membrane stretched over the edge of a vessel containing air presents, along with the corresponding initial conditions, an important and mathematically interesting problem which has been solved only in a few special cases (e.g., for vessels having the form of circular cylinders). This paper gives the complete solution for an annular cylinder.

Orig. art. has: 23 formulas.

ASSOCIATION: none

SUBMITTED: 01Feb64

NR REF Sov: 006

ENCL: 00

OTHER: 008

SUB CODE: OC, ME

JPRS

Card 1/1 DP

GUTMAN, E.; VODICKA, Z.; VROBOVA, G.

Role of the nervous system in supercompensation of glycogen in the skeletal muscle. Chekh. fiziol. 3 no.2:182-190 1954.

1. Fiziologicheskiy institut Chekhoslovatskoy Akademii nauk, Praga.
(MUSCLES, metabolism,
glycogen, compensary synthesis after effort, eff. of
denervation)
(GLYCOGEN, metabolism,
musc., eff. of denervation on compensatory synthesis)
(STRESS, effects,
on musc. synthesis of glycogen, eff. of denervation)

VODICKA, Z.;GUTMANN, E.

"Some Metabolic Sequelae of Nociceptive Stimulation of Striped Muscles." p. 400,
(CESKOSLOVENSKA FYSIOLOGIE, Vol. 2, No. 4, Dec. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

VODICKA, Z.

Reflex atrophy of the skeletal muscle during nociceptive stimulation.

P. 45 (Ceskoslovenska Fysiologie. Vol. 6, no. 1, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 2,
February 1958

Vodicka Zdenek

WIEDERMANN, Boleslav; PODIVINSKY, Radmil; VODICKA, Zdenek; JANICEK, Milos

The problem of Waldenstrom's macroglobulinemia. Neoplasma, Bratisl.
4 no.4:366-380 1957.

1. I. Medizinische Klinik der Palacky-Universitat, olomouc Biochemische
Zentrallaboratorien der Landesanstalt fur Offentliches Gesundheitswesen,
Olomouc. Institut fur Experimentelle Pathologie der Palacky-Universitat
Olomouc.

(SERUM GLOBULIN
macroglobulinemia of Waldenstrom, immunol. & serol. aspects)

GUTMANN, E.; BASS, A.; VODICKA, Z.; VRBOVA, G.

Nervous control of trophic processes in striated muscle.
Physiol. bohem. 5:14-16 Suppl. 1956.

1. Institute of Physiology, Czechoslovak Academy of Sciences,
Prague.

- (MUSCLES, metab.
glycogen, control by nerves in striated musc.)
- (GLYCOGEN, metab.
musc., control by nerves in striated musc.)

GUTMANN, E.; VODICKA, Z.; ZELENA, J.

Modifications in the striated nerve following section of the
nerve and their relation to the conditions in the peripheral
nerve stump. Cesk. fysiol. 4 no.2:181-185 May 55.

1. Fysiologicky ustav Cs. akademie ved, Praha.

(MUSCLES, metabolism,

glycogen, eff. of nerve section)

(GLYCOGEN, metabolism,

musc., eff. of nerve section)

GUTMANN, E.; VODICKA, Z.

Physiopathology of pain. Prakt. lek., Praha 35 no.18:421-424
20 Sep 55.

(PAIN, pathology,
physiopathol.)

BASS, A.; VODICKA, Z.

Effect of denervation and of nociceptive irritation on glycogen
structure in skeletal muscles. Cesk. fysiol. 4 no.4:427-432
22 Oct 55.

1. Fisiologicky ustav CSAV, Praha.

(MUSCLES, metabolism,
glycogen, eff. of denervation & of nociceptive irritation)

(GLYCOGEN, metabolism,
musc., eff. of denervation & of nociceptive irritation)

VODICKA, Zdenek

Principles of wage policy in the building industry. Roz
stavby 12 no.4; Suppl.II. kurs nové techniky a ekonomiky
no.4:77-96 '64.

VODICKA-2

Effect of isonicotinoyl hydrazide on transaminases of living mycobacteria. Z. Vodicka and V. Delong (Palacky Univ., Olomouc, Czechoslovakia) *Rozhlady Tuberk.* 16, 193-202 (1956).—Isonicotinoyl hydrazide (I) incubated for 12-18 hrs. at 37° and pH 7.8-8.2 with α -ketoglutarate and aspartate in the presence of bacterial suspensions did not influence significantly the transamination system. Concentration of I/ml. caused an inhibition of 0-5%, concn. of 100 γ /ml. maximally 12%. Antagonism between I and vitamin B₆ (II) in mycobacteria could not be proved. II does not counteract the bacteriostatic effect of I and does not influence the growth of I-resistant strains. The enzymic aspects of the antibacterial activity of I are discussed.
L. J. Urbánek

2

GUTMANN, E.; VODICKA, Z.

Certain modifications of the metabolism following nociceptive
irritation of the striated muscle. Chekh fiz 2 no.4:389-403. '53.
(REAL 3:7)

1. Biologicheskiy institut Chekhslovatskoy Akademii nauk,
fiziologicheskoye otdeleniye, Praga.

(GLYCOGEN, metabolism,

*eff. of nociceptive irritation of striated musc.)

(MUSCLES, physiology,

*eff. of nociceptive irritation on glycogen metab.)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

*Effect of deactivation and reuptake stimulation on the
structure of glycogen in skeletal muscle. * Bass and Z.*

2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, Z.

SCIENCE

Periodicals: CESKOSLOVENSKA FYSIOLOGIE Vol. 4, No. 4, 1955

BASS, A.; GUTMANN, E.; VODICKA, Z. Resynthesis of glycogen in a muscle after the strain of activity. P. 419

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

BASS, A.; GUTMANN, E.; VODICKA, Z.

The resynthesis of glycogen in muscle after stimulation.
Chekh. fiziol. 4 no.3:267-275 1955.

1. Institute of Physiology, Czechoslovak Academy of Science,
Prague.

(GLYCOGEN, metabolism,
musc., eff. of galvanic stimulation on resynthesis)
(MUSCLES, metabolism,
glycogen, eff. of galvanic stimulation on resynthesis)
(ELECTRICITY, effects,
on musc. glycogen resynthesis)

BASS, A.; GUTMANN, E.; VODICKA, Z.

Resynthesis of muscle glycogen following work. Cesk. fysiol.
4 no.4:419-426 22 Oct 55.

1. Fysiologicky ustav CSAV, Praha.
(GLYCOGEN, metabolism,
musc., resynthesis after work)
(MUSCLES, physiology,
glycogen, resynthesis after work)
(WORK, physiology,
musc. glycogen resynthesis after work)

BASS, A.; VODICKA, Z.

Effect of denervation and of nociceptive stimulation of
structure of glycogen in the skeletal muscle.

1. Fizio-logicheskiy institut Chekhoslovatskoy Akademii Nauk,
Praga.

(MUSCLES, physiology,
eff. of denervation & nociceptive stimulation on
glycogen in rabbits)

(GLYCOGEN, metabolism,
musc., eff. of denervation & nociceptive stimulation
in rabbits)

EXCERPTA MEDICA Sec.2 Vol.10/9 Phy.Biochem. Sept 57
VODICKA 2.

3966. BASS A. and VODICKA Z., Fysiol. Úst. ČSAV, Praha. * Změny aktivity hexokinasy po pracovním zatízení svalu a jejich závislost na inervaci. Changes in hexokinase activity in muscle after exercise and their dependence on innervation ČSL.FYSIOL. 1956, 5/1 (45-49) Tables One and 4 hr. after exercise (direct stimulation of the triceps surae with galvanic current) hexokinase activity in extract from this muscle is decreased. After denervation this decrease is less apparent and 3 days after neurotomy it has completely disappeared. Hexokinase activity 4 hr. or 3 days after nerve section without previous exercise is not changed in comparison to normal innervated muscle.
Hahn - Prague

Vodicka, Z.

Penetration of the Na²⁴ and P³² radioisotopes into a skeletal muscle
during nociceptive stimulation. P. 50
CESKOSLOVENSKA FYSIOLOGIE. (Ceskoslovenska akademie ved. Fy-
siologicky ustav) Praha
Vol. 5, no. 1, 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

HUDLICKA, O.; VODICKA, Z.; BASS, A.

Penetration of radioactive sodium and phosphorus into the soleus
and quadriceps muscles following nociceptive stimulation. Cesk.
fysiol. 5 no.1:50-55 26 Mar 56.

1. Fysiologicky ustav CSAV, Praha.
(SODIUM, radioactive,
musc. metab., eff. of pain stimulation (Cz))
(PHOSPHORUS, radioactive,
same)
(MUSCLES, metabolism,
radiophosphorus & radiosodium, eff. of pain stimulation
(Cz))
(PAIN, experimental,
eff. on musc. radiophosphorus & radiosodium (Cz))

VODICKA, Z.

Proximo-distal transport of solid substances within the nerve.
Physiol. bohem. 5:55-57 Suppl. 1956.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(NERVES, physiol.
proximo-distal transport of solid substances, determ.
in rats)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

VODICKA Z.

... after work loading.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

~~SECRET~~

✓ 94.1. Detection of radioactive isotopes sodium-24 and potassium-32
in biological material by atomic absorption. O. Hudlicka.
Z. Vodicka, and A. Bora. Czechoslovakia
Academy of Sciences, Prague. Czechoslovakia
Received Oct 1964. One of the hind limits in
showing the number of atoms per unit area.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

VODICKA, Z.

Reflex atrophy in the skeletal muscle following nociceptive irritation.
Cesk. fysiol. 6 no.1:45-53 '57.

1. Fysicologicky ustav Cs. akademie ved, Praha.

(MUSCLES, physiology,

nociceptive irritation in animals causing reflex atrophy
(Cz))

VODICKA, Z.

VODICKA, Z.; GUTMANN, E.; BASS, A.

Glycogen metabolism in the skeletal muscle in rats following nociceptive irritation. Cesk. fysiol. 6 no.3:354-361 Aug 57.

1. Fysiologicky ustav Cs. akademie Ved., Praha.

(MUSCLES, metabolism,

glycogen, eff. of nociceptive irritation in rats (Cs))

(GLYCOGEN, metabolism,

musc., eff. of nociceptive irritation in rats (Cs))

COUNTRY	Czechoslovakia	T
CATEGORY	Human and Animal Physiology, Blood	
ABG. JOUR.	: RZhBiol., №.5 1959, №. 22002	
AUTHOR	Wiedermann, B.; Podivinsky, R.; <u>Vodicka, Z.</u> ;*	
INST.	---	
TITLE	Waldenstrom's Macroglobulinemia.	
OPIG. PUB.	Neoplasma, 1957, 4, No. 4, 366--380	
ABSTRACT	no abstract	
* Janicek, M.		
Card:	1/1	
T-45		

SHAPOVALOV, A.I.; VODIL'NIKOV, A.T.; BOGRYY, V.S., inzh., red.;
KUTENKOVA, G.M., tekhn.red.

[Remote control of stationary belt-conveyer lines] Distantsi-
noe avtomatizirovannoe upravlenie liniiami statsionarnykh
lentochnykh konveierov. Sverdlovsk, Tsentr.biuro tekhn.
informatsii, 1959. 10 p. (MIRA 14:4)
(Remote control) (Conveying machinery)

AEDULLINA, N.G.; SULTANOVA, R.Kh.; RUTKOVSKAYA, L.I.; VODILOVA, S.A.

Fractional deposition of a precipitate of nitric acid extracts
from Kara Tau phosphorites. Zhur. prikl. khim. 36 no.5:1096-
1100 My '63. (MIRA 16:8)

(Kara Tau--Phosphorites) (Extraction (Chemistry))

NEMILOV, V. A.: VODISOVA, I. A.

Iridium

Examination of the palladium-platinum-iridium alloy. Izv. Sekt.plat.i blag.met.
no. 25, 1950.

9. Monthly List of Russian Accessions, Library of Congress, April ² ₁₉₅₈/ Uncl.

VODK, I.M.

24723. VODK, I.M. Ob Odnom Dostatochnom Ustoychivosti Dyizheniya V Kriticheskem
Sduchave Dvukh Korney S Nadevymi Veshchestvennymi Chastyami. Prikl. Matematika
I Mekhanika, 1949. Vyp. 4, S. 459-62

SO: Letopis' No. 33, 1949

VODKATLO, Shtefan; ULJITU, Marchel

On the etiology and pathogenesis of the neurovascular syndrome in newborn infants. Pediatrilia 38 no.10:9-15 0 '60. (MIRA 13:11)

1. Iz 2-y ginekologicheskoy kliniki Kluzhskogo mediko-farmatsev-ticheskogo instituta (zav. - dotsnet Nikolaye Kozha, dir. - akad. Aursel Moga).

(BIRTH INJURY) (ASPHYXIA NEONATORUM)

VODKAYLO, L.V.

Prevention and treatment of rickets in young children under
polyclinical conditions. Pediatrika 42 no.9, 1973 9'63.
(MIRA 12;5)

1. Iz kafedry gosпитальной педиатрии (заведующий - действителный член АМН СССР проф. А.Ф. Туя) в 23-й детской поликлинике (заведующий К.В. Мельник) Ленинградского педиатрического медицинского института.

VODKOV, A.

Director of Agricultural Institute for Southeastern
USSR

Deputy to Russian Republic Supreme Soviet.

"Pressing Task of Agriculture in Southeast,"
Izvestia, May 8.

Current Digest of the Soviet Press, Vol. 3
No. 19, 1951, page 28. (In CIA Library)

VODKOVSKAYA, Yu.D.

Renin content in human kidneys following death from hypertension
and in rabbits with experimental hypertension induced by coarctation
and with cholesterin-induced atherosclerosis. Biul.eksp.biol.med. 42 no.6:
23-27 Je '56. (MLRA 9:9)

1. Iz patofiziologicheskoy laboratorii (dir. deystvitel'nyy chlen
AMN SSSR A.L.Myasnikov) Instituta terapii AMN SSSR, Moskva. Pred-
stavlena deystvitel'nym chlenom AMN SSSR A.L.Myasnikovym.

(PROTEASES

renin content in kidneys of man after death caused by
hypertension & in kidneys of rabbits with exper.
coarctational hypertension & cholesterol-induced athero-
sclerosis)

(KIDNEYS, metab.

renin determ. after death caused by hypertension in man
& in rabbits with exper. coarctation hypertension &
cholesterol-induced atherosclerosis)

HADA, Sandor; VODL, Emma

Quantitative analysis of carbon monoxide in gas generator
plants. Ipari energia 3 no.3:51-54 Mr '62.

1. Pecsi Kokszimuvek.

VODNANSKY, Gustav, inz.

One hundred years of the International Telecommunication Union.
CS spoje 10 no.2:1-2 Ap '65.

1. Central Administration of Telecommunication, Prague.

VODLICKA, J.

VODLICKA, J. Occurrence of laterite near Vrbatuv Kostelec in the Chrundim area. p. 132.

Vol. 31, No. 3, 1956

VESTNIK

GYCOGRAPHY & GEOLGY

Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

VODNANSKY, J.; SLABINA, M.; SCHNEIDER, B.

Investigation of the changes in composition and structure of cellulose and wood by infrared spectroscopy. Coll Cz Chem 28 no. 12:3245-3256 D '63.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, and Paper and Cellulose Research Institute, Research Laboratory, Prague.

CZECHOSLOVAKIA

SCHNEIDER, B; VODNANSKY, J.

Institute of Macromolecular Chemistry, Czechoslovak
Academy of Sciences, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 8, 1953, pp 2080-2087

"A Study on the Relation between the Infrared Spectra
/ and the Crystalline Structure of Cellulose."

SCHNEIDER, B.; VODNANSKY, J.

A study on the relation between the infrared spectra and the
crystalline structure of cellulose. Coll Cz Chem 28 no.8:2080-
2088 Ag '63.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of
Sciences, Prague.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320019-1"

KULCSAR, G.J.; VODNAR, I.; SZOCS, H.

Contributions to the study of the phenomena which take place
at air ozonization and the analysis of ozonized air. Studia
Univ B-B S Chem 8 no.1:465-472 '63

1. "Babes-Bolyai" University, Cluj.

KULCSAR, Geza J.; VODNAR, Ioan

Contributions to the study of adsorption of nitrogen dioxide on aluminum silicates. Pt. 1. Studia Univ B-B S. Chem 9 no. 1:47-53 '64.

KULCSAR, G.J.; VODNAR, J.; JANKU,L.; KOHAN,J.; HAMBURG, E.

Study on the behavior of coal in the Virzari coal mine in extraction under pressure with solvents. Studia Univ B-B S Chem 8 no.1:457-463 '63

1. "Babes-Bolyai" University, Cluj.

KULCSAR, G.J.; HAMBURG, Erica; VODNAR, J.; KOHAN, J.

Turning indigenous brown coals to good account chemically.
Pt.2. Studii cerc chimie Cluj 14 no.1:125-136 '63.

1. Laboratory of General Chemical Technology, "Babes-Bolyai"
University, Cluj.

KULCSAR, G.J.; VODNAR, J.; SZOCS, H.

Study of the chemical processes which occur in the Berthelot type ozonizers. Studii cerc chimie Cluj 14 no.1:137-146 '63.

1. Laboratory of General Chemical Technology, "Babes-Bolyai" University, Cluj.

VODNAREK, L.

Calculating machine for cutting conditions for machining. p. 360.

STROJIRENSKA VYROBA. Praha, Czechoslovakia. Vol. 7, no. 8,
August 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.N.; VINETS, G.B.; VODNEV, A.G.; VORONIN, A.S.; GEVLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDEHKO, V.Ye.; DMITRIYEV, M.M.; DODDE, M.M.; DOROGOBID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELENETSKIY, A.G.; IVASHCHENKO, Ya.H.; KAFTAN, S.I.; KVASHA, A.S.; KIREYEV, A.D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LGAJLOV, K.I.; LEYTES, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEMIROVSKIY, N.Kh.; NEFEDOV, V.A.; OBUKHOVSKIY, Ya.M.; PAKTSEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVYAKIN, A.A.; ROZHKOV, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; FILIPPOV, B.S.; FRIDMAN, N.K.; FRISHEBERG, V.D.; KHAR'KOVSKIY, K.V.; KHOLOPTSEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNYY, I.I.; CHERTOK, V.T.; SHIELKOV, A.K.

Samuil Berisovich Bamme. Keks i khim.no.6:64 '56.
(Bamme, Samuil Berisovich, 1910-1956)

(MLRA 9:10)

VODNEV, G.G.; SHELKOV, A.K.; DIDENKO, V.Ye.; FILIPPOV, B.S.; TSAREV, M.N.;
ZASHVARA, V.G.; LITVINEKO, M.S.; MEDVEDEV, K.P.; MOLODTSOV, I.G.;
LGALOV, K.I.; RUBIN, P.G.; SAPOZHNIKOV, L.M.; TYUTYUNNIKOV, G.N.;
DMITRIYEV, M.M.; LEYTES, V.A.; LERNER, B.Z.; MEDVEDEV, S.M.; REVYAKIN,
A.A.; TAYCHER, M.M.; TSOGLIN, M.E.; DVORIN, S.S.; RAK, A.I.; OBUKHOV-
SKIY, Ya.M.; KOTKIN, A.M.; ARONOV, S.G.; VOLOSHIN, A.I.; VIROZUB, Ye.V.;
SHVARTS, S.A.; GINSBURG, Ya.Ye.; KOLYANDR, L.Ya.; BELETSKAYA, A.F.;
KUSHNEREVICH, N.R.; BRODOVICH, A.I.; NOSALEVICH, I.M.; SHTROMBERG, B.I.;
MIROSHNICHENKO, A.M.; KOPELIOVICH, V.M.; TOPORKOV, V.Ya.; AFONIN, K.B.;
GOFTMAN, M.V.; SEMENENKO, D.P.; IVANOV, Ye.B.; PEYSAKHZON, I.B.;
KULAKOV, N.K.; IZRAELIT, E.M.; KVASHA, A.S.; KAFTAN, S.I.; CHERMNYKH,
M.S.; SHAPIRO, A.I.; KHALABUZAR', G.S.; SEKT, P.Ye.; GABAY, L.I.;
SMUL'SON, A.S.

Boris Iosifovich Kustov; obituary. Koks i khim. no.2:64 '55.(MLRA 9:3)
(Kustov, Boris Iosifovich, 1910-1955)

